



BP0207-US 1

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application Serial No: 10/765,458
Date Filed: January 27, 2004
Application Title: Methods, Mixtures And Kits Pertaining To Analyte
Determination
Applicants: Pappin et al.
Group Art Unit: 1743
Examiner: Not Assigned
Certified Mail No.: 7003 1680 0001 6779 2230

Certificate of Mailing Pursuant to:
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Reg. No. 39,995

Commissioner For Patents
Washington, DC 20231

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INFORMATION DISCLOSURE STATEMENT

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Customer Number 023544

Respectfully submitted,

Date: Aug 5, 2004

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PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.: BP0207-US 1
 APPLICANT: Pappin et al.
 SERIAL NO.: 10/765,458
 FILING DATE: January 27, 2004
 GROUP: 1743

US PATENT DOCUMENTS							
EXAM . INIT.		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	3,860,581	Jan. 14, 1975	Nudelman et al.	260	239.3D	Dec. 27, 1972
	AB	5,780,232	July 14, 19986	Arlinghaus et al.	435	6	May 28, 1996
	AC	6,027,890	Feb. 22, 2000	Ness et al.	435	6	July 22, 1997
	AD	6,156,527	Dec. 5, 2000	Schmidt et al.	435	24	Jan. 23, 1998
	AE	6,312,893	Nov. 6, 2001	Van Ness et al.	435	6	July 22, 1997
	AF	6,319,476	Nov. 20, 2001	Victor, Jr. et al.	422	103	Mar. 2, 1999
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	AH	6,403,309	June 11, 2002	Iris et al.	435	6	Mar. 19, 1999
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	BA	WO94/15944	Jul. 21, 1994	WIPO			
	BB	WO97/11958	April 3, 1997	WIPO			
	BC	WO98/15648	Dec 19, 1996	WIPO			
	BD	WO98/31830	Jun 11, 1998	WIPO			
	BE	WO98/32876	July 30, 1998	WIPO			
	BF	WO99/05319	May 6, 1999	WIPO			
	BG	WO00/11208	Mar. 2, 2000	WIPO			
	BH	WO02/14867	Feb. 21, 2002	WIPO			
	BI	WO01/86296	Nov. 15, 2001	WIPO			
	BJ	WO03/001206	Jan. 3, 2003	WIPO			
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	BL	WO03/040288	May 15, 2003	WIPO			
	BM	WO03/077851	Sep. 25, 2003	WIPO			
	BN	EP 0261804	Aug. 25, 1987	EPO			
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	CA	Aebersold, R. et al. "Mass Spectrometry in Proteomics". Chem Rev. 101, 269-295 (2001)					
	CB	Al-Shahrour, F. et al. "FatiGO: A Web Tool For Finding Significant Associations of Gene Ontology Terms With Groups of Genes (fatigo.bioinfo.cnio.es)". Bioinformatics , 20, 578-580 (2004)					
	CC	Alving, K. et al. "Characterization of O-Glycosylation Sites in MUC2 Glycopeptides by NanoElectrospray QTOF Mass Spectrometry". Journal of Mass Spectrometry , 34, 395-407 (1999)					
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CE	Banks, R.E. et al. "Evidence for the existence of a novel pregnancy-associated soluble variant of the vascular endothelial growth factor receptor, Flt-1". Molecular Human Reproduction , 4, 377-386 (1998)
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CG	Beck-Sickinger, A. et al. "Epitope mapping: synthetic approaches to the understanding of molecular recognition in the immune system". Pharmaceutical ACTA Helvetiae , 68, 3-20 (1993)
CH	Benard, P. et al. "Homogeneous Multiplex Genotyping of Hemochromatosis Mutations with Fluorescent Hybridization Probes". American Journal of Pathology , 4, 1055-1061 (1998)
CI	Biemann, K. et al. "Primary Structure of Peptides and Proteins". Biological Mass Spectrometry , 275-297 (1994)
CJ	Biswas, A. et al. "Rearrangement of N-(p-Toluenesulfonyloxy)-2-Pyrrolidinone". Heterocycles , 11, 2849-2851 (1987)
CK	Chase B.H. et al. "The Synthesis of C-Labelled Diethylcarbarnazine, 1-Diethylcarbarnyl-4-methylpiperazine (Hetrazan)". The Journal of The Chemical Society , 3874-3877 (1953)
CL	Chu, Y. et al. "Affinity Capillary Electrophoresis-Mass Spectrometry for Screening Combinatorial Libraries". J. Am. Chem. Soc. 118, 7827-7835 (1996)
CM	Chu, Y. et al. "Free Solution Identification of Candidate Peptides from Combinatorial Libraries by Affinity Capillary Electrophoresis/Mass Spectrometry". J. Am. Chem. Soc. 117, 5419-5420 (1995)
CN	Chu, Y. et al. "Using Affinity Capillary Electrophoresis To Identify the Peptide in a Peptide Library that Binds Most Tightly to Vancomycin". J. Org. Chem. 58, 648-652 (1993)
CO	Cotterill, L. et al. "Qa-1 interaction and T cell recognition of the Qa-1 determinant modifier peptide". Eur. J. Immunol. 27, 2123-2132 (1997)
CP	Dunayevskiy, Y. et al. "Application of capillary electrophoresis-electrospray ionization mass spectrometry in the determination of molecular diversity". Proc. Natl. Acad. Sci. USA , 93, 6152-6157 (1996)
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CR	Eng, J. et al. "An Approach to Correlate Tandem Mass Spectral Data of Peptides With Amino Acid Sequences in a Protein Database". J. Am. Soc. Mass Spectrom. , 5, 976-989 (1994)
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CU	Gao, J. et al. "Screening Derivated Peptide Libraries for Tight Binding Inhibitors to Carbonic Anhydrase II by Electrospray Ionization-Mass Spectrometry." J. Med. Chem. 39, 1949-1955 (1996)
CV	Geysen, H. et al. "Isotope or mass encoding of combinatorial libraries". Chemistry & Biology , 3, 679-688 (1996)
CW	Gerber, S.A. et al. "Absolute Quantification of Proteins and Phosphoproteins From Cell Lysates by Tandem MS". Proc. Natl. Acad. Sci. , 100, 6940-6945 (2003)
CX	Goodlett, D. et al. "Reduced Elution Speed Detection for Capillary Electrophoresis/Mass Spectrometry". J. Microl Sep. 5, 57-62 (1993)
CY	Gonzalez, C.I. et al. "Nonsense-mediated mRNA Decay in Saccharomyces Cerevisiae". Gene , 274, 15-25 (2001)
CZ	Goshe, M.B. et al. "Stable Isotope-Coded Proteomic Mass Spectrometry". Curr Opin Biotechnol. , 14, 101-109 (2003)
DA	Griffin, T.J. et al. "Complementary Profiling of Gene Expression at the Transcriptome and Proteome Levels in Saccharomyces Cerevisiae". Mol. Cell Proteomics , 1, 323-333 (2002)
DB	Gygi, S.P. et al. "Correlation Between Protein and mRNA Abundance In Yeast". Mol. Cell Biol. , 19, 1720-1730 (1999)
DC	Gygi S.P. et al. "Quantitative Analysis of Complex Protein Mixtures Using Isotope-Coded Affinity Tags". Nat. Biotechnol. , 17, 994-999 (1999)
DD	Ham, S. et al. "HLA-DO is a negative modulator of HLA-DM-mediated MHC class II peptide loading". Current Biology , 7, 950-957 (1997)
DF	Han, D.K. et al. "Quantitative Profiling of Differentiation-induced Microsomal Proteins Using Isotype-Coded Affinity Tags and Mass Spectrometry". Natl. Biotechnol. , 19, 946-951 (2001)
DF	Hanley, S. et al. "Re-evaluation of the primary structure of <i>Ralstonia eutropha</i> phasing and implications for polyhydroxyalkanoic acid granule binding". FEBS Letters , 447, 99-105 (1999)
DG	Harris et al. "An Improved Synthesis of 1-Methyl-2,5-piperazinedione". J. Heterocyclic Chem. 18, 423-424 (1981)

DH	He, F. et al. "Genome-Wide Analysis of mRNA's Regulated by the Nonsense-mediated and 5' to 3' mRNA Decay Pathways in Yeast. Mol. Cell , 12, 1439-1452 (2003)
DI	Henion, J. et al. "Mass Spectrometric Investigations of Drug-Receptor Interactions". Therapeutic Drug Monitoring , 15, 563-569 (1993)
DJ	Henry, N.L. et al, Purification and Characterization of Yeast RNA Polymerase II General Initiation Factor g. J. Biol. Chem. 267, 23388-23392 (1992)
DK	Hentze, M.W. et al. "A Perfect Message: RNA Surveillance And Nonsense-Mediated Decay". Cell , 96, 307-310 (1999).
DL	Hermanson, G. et al. "The Chemistry of Reactive Groups". Bioconjugate Techniques , Chapter 2, 137-165
DM	Heyes, M. et al. "(¹⁸ O) Quinolinic Acid: Its Esterification without Back Exchange for Use as Internal Standard in the Quantification of Brain and CSF Quinolinic Acid".
DN	Höss, M. et al. "A human DNA editing enzyme homologous to the Escherichia coli DnaQ/MutD protein". The EMBO Journal , 18, 3868-3875 (1999)
DO	Hughs, I. Et al. "Design of Self-Coded Combinatorial Libraries To Facilitate Direct Analysis of Ligands by Mass Spectrometry". J. Med. Chem. , 41, 3804-3811 (1998)
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DQ	Ibarrola, N. et al. "A Novel Proteomic Approach For Specific Identification of Tyrosine Kinase Substrates Using ¹³ C-Labeled Tyrosine. J. Biol. Chem. In press (2004)
DR	Ju, Q. et al. "REB1, a Yeast DNA-Binding Protein With Many Targets, is Essential For Growth and Bears Some Resemblance to the Oncogene myb". Mol. Cell Biol. , 10, 5226-5234 (1990)
DS	Jung, g. et al. "Multiple Peptide Synthesis Methods and Their Applications". Angewandte Chemie , 31, 367-486 (1992)
DT	Karimi-Busheri, F. et al. "Molecular Characterization of a Human DNA Kinase". The Journal of Biological Chemistry , 274, 24187-24194 (1999)
DU	Kondo, H. et al. "p47 is a cofactor for p97-mediated membrane fusion". Nature , 388, 75-78 (1997)
DV	Köster, H. et al. "A strategy for rapid and efficient DNA sequencing by mass spectrometry". Nature Biotechnology , 14, 1123-1128 (1996)
DW	Krusic, P. et al. "Electron Spin Resonance Studies of Fluoroalkyl Radicals in Solution. III. Photolysis of Perfluoroketones and Adduct Formation". The Journal of Physical Chemistry , 78, 2036-2041 (1974)
DX	Kurihara, T. et al. "Sec24p and Iss1p Function Interchangeably in Transport Vesicle Formation From The Endoplasmic Reticulum in Saccharomyces Cerevisiae". Mol. Biol. Cell , 11, 983-998 (2000)
DY	Maderazo, A.B. et al. "Upf1p Control of Nonsense mRNA Translation is Regulated by Nmd2p and Upf3p". Mol. Cell Biol. , 20, 4591-4603 (2000)
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EB	Martinovic S. et al. "Selective Incorporation of Isotopically Labeled Amino Acids For Identification of Intact Proteins on a Proteome-Wide Level". J. Mass Spectrom. , 37, 99-107 (2002)
EC	Masselon, C. et al. "Accurate Mass Multiplexed Tandem Mass Spectrometry for High-Throughput Polypeptide Identification from Mixtures". Anal. Chem. , 72, 1918-1924 (2000)
ED	Metzger, J. et al. "Analytical methods for the characterization of synthetic peptide libraries". Peptides , 481-482 (1992)
EE	Metzger, J. et al. "Electrospray Mass Spectrometry and Tandem Mass Spectrometry of Synthetic Multicomponent Peptide Mixtures: Determination of Composition and Purity". Analytical Biochemistry , 219, 261-277 (1994)
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EG	Moore, R. et al. "A Microscale Electrospray Interface Incorporating a Monolithic, Poly(styrene-divinylbenzene) Support for On-Line Liquid Chromatography/Tandem Mass Spectrometry Analysis of Peptides and Proteins". Anal. Chem. 70, 4879-4884 (1998)
EH	Nawrocki, J. et al, "Analysis of Combinatorial Libraries Using Electrospray Fourier Transform Ion Cyclotron Resonance Mass Spectrometry". Rapid Communication in Mass Spectrometry , 10, 1860-1864 (1996)
EI	Nazarpak-Kandlousy, N. et al. "Regiochemical Tagging: A New Tool for Structural Characterization of Isomeric Components in Combinatorial Mixtures". J. Am. Chem. Soc. , 122, 3358-3366 (2000)

EJ	Needels M. et al. "Generation and screening of an oligonucleotide-encoded synthetic peptide library". Proc. Natl. Acad. Sci. USA , 90, 10700-10704 (1993)
EK	Nestler, H. et al. "A General Method for Molecular Tagging of Encoded Combinatorial Chemistry Libraries". J. Org. Chem , 59, 4723-4724 (1994)
EL	Nikolaiev, V. et al. "Peptide-Encoding For Structure Determination of Nonsequence-able Polymers Within Libraries Synthesized and Tested on Solid-Phase Supports". <i>Peptide Research</i> , 3, 161-170, (1994)
EM	Nutiu, R. et al. "Tripartite Molecular Beacons". Nucleic Acids Research , 18, 1-9 (2002)
EN	Ohlmeier, M. et al. "Complex synthetic chemical libraries indexed with molecular tags". Proc. Natl. Acad. Sci. USA , 90, 10922-10926 (1993)
EO	Olejnik, J. et al. "Photocleavable biotin phosphoramidite for 5'-end labeling, affinity purification and phosphorylation of synthetic oligonucleotides". Nucleic Acids Research , 24, 361-366 (1996)
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EQ	Ong, S.E. et al. "Properties of ¹³ C-Substituted Arginine in Stable Isotope Labeling By Amino Acids In Cell Culture (SILAC)". J. Proteome Res. 2, 173-181 (2003)
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ET	Pitha, J. et al. "Synthetic Analogs of Nucleic Acids". Biomedical Polymers , 271-297 (1980)
EU	Perkins, D.N. et al. "Probability-Based Protein Identification By Searching Sequence Databases Using Mass Spectrometry Data". Electrophoresis , 20, 3551-3567 (1999)
EV	Peterson, C.L. et al. "Characterization of the Yeast Swi1, SWI2, and SWI3 Genes, Which encode a Global Activator of Transcription". Cell , 68, 573-583 (1992)
EW	Przybylski, M. et al. "Mass spectrometric approaches to molecular characterization of protein-nucleic acid interactions". Toxicology Letters , 82/83, 567-575 (1995)
EX	Qiu, Y. et al. "Acid-Labile Isotype-Coded Extractants: A Class of Reagents for Quantitative Mass Spectrometric Analysis of Complex Protein Mixtures". Analytical Chemistry , 19, 4969-4979
EY	Rao, T. et al. "TFA-NHS as bifunctional protecting agent: simultaneous protection and activation of amino carboxylic acids. Tetrahedron Letters , 43, 7793-7795 (2002)
EZ	Rautio, J. et al. "Synthesis And In Vitro Evaluation Of Novel Morpholinyl- and Methylpiperazinylacyloxyalkyl Prodrugs of 2-(6-Methoxy-2-naphthyl)propionic Acid (Naproxen) for Topical Drug Delivery". J. Med. Chem. , 115, 1489-1494 (2000)
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FC	Saghatelian, A. et al. "DNA Detection and Signal Amplification via an Engineered Allosteric Enzyme". J. Am. Chem. Soc. 125, 344-345 (2003)
FD	Sakakibara S. et al., "A New Reagent For The P-Nitrophenylation of Carboxylic Acids". Bulletin of The Chemical Society of Japan , 8, 1231-1232 (1964)
FE	Sakakibara, S. et al., "The Trifluoroacetate Method of Peptide Synthesis I. The Synthesis and Use of Trifluoroacetate Reagents". The Synthesis and Use of Trifluoroacetate Reagents , 11, 1979-1983 (1965)
FF	Schröter, M. et al. "Genotyping of Hepatitis C Virus Types 1,2,3 and 4 by a One-Step LightCycler Method Using Three Different Pairs of Hybridization Probes". Journal of Clinical Microbiology , 6, 2046-2050 (2002)
FG	Shevchenko, A. et al. "MALDI Quadrupole Time-of-Flight Mass Spectrometry: A Powerful Tool for Proteomic Research". Anal. Chem. , 72, 2132-2141 (2000)
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FI	Sickinger, A. et al. "Epitope mapping: synthetic approaches to the understanding of molecular recognition in the immune system". Pharmaceutical ACTA Helvetic , 68, 3-20 (1993)
FJ	Stacey, M. et al. "A General Method of Esterification Using Trifluoroacetic Anhydride". Nature , 8, 705

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FL	Stevanovic, S. et al. "Natural and Synthetic Peptide Pools: Characterization by Sequencing and Electrospray Mass Spectrometry". Bioorganic & Medical Chemistry Letters , 3, 431-436 (1993)
FM	Stevens, A. et al. "Fragments of the Internal Transcribed Spacer 1 or Pre-rRNA Accumulate in <i>Saccharomyces Cerevisiae</i> Lacking 5'-3' Exoribonuclease 1". J. Bacteriol. , 173, 7024-7028 (1991)
FN	Tao, W.A. et al. "Advances in Quantitative Proteomics Via Stable Isotope Tagging and Mass Spectrometry". Curr Opin Biotechnol. , 14, 110-118 (2003)
FO	Thomas, D. et al. "Y SAM2 Encodes The Second Methionine S-Adenosyl Transferase in <i>Saccharomyces Cerevisiae</i> : Physiology and Regulation of Both Enzymes". Mol. Cell Biol. , 8, 5132-5139 (1988)
FP	Thompson, A. et al. "Tandem Mass Tags: A Novel Quantification Strategy for Comparative Analysis of Complex Protein Mixtures by MS/MS". Anal. Chem. , 75, 1895-1904 (2003)
FQ	Tugal, T. et al. "The Orc4p and Orc5p Subunits of the <i>Xenopus</i> and the Human Origin Recognition Complex Are Related to Orc1p and Cdc6p". Journal of Biological Chemistry , 273, 32421-32429 (1998)
FR	Veenstra, T. et al. "Proteome Analysis Using Selective Incorporation of Isotopically Labeled Amino Acids". American Soc. For Mass. Spect. , 11, 78-82 (2000)
FS	Wagner, D. et al. "Ratio Encoding Combinatorial Libraries with Stable Isotopes and their Utility in Pharmaceutical Research". Combinational Chemistry & High Throughput Screening , 3, 143-153 (1998)
FT	Washburn, M.P. et al. "Reproducibility of Quantitative Proteomic Analyses of Complex Biological Mixtures by Multidimensional Protein Identification Technology". Anal. Chem. , 75, 5054-5061 (2003)
FU	Wentworth, P. et al. "Generating and analyzing combinatorial chemistry libraries". Analytical Chemistry , 70, 109-115 (1998)
FV	Wegierski, T. et al. "Bms1p, a G-domain-containing protein, Associates with Rcl1p and is Required For 18S rRNA Biogenesis in Yeast". RNA , 7, 1254-1267 (2001)
FW	Wieboldt, R. et al. "Immunoaffinity Ultrafiltration with Ion Spray HPLC/MS for Screening Small-Molecule Libraries". Analytical Chemistry , 69, 1683-1691 (1997)
FX	Williams, E. et al. "Hadamard Transform Measurement of Tandem Fourier-Transform Mass Spectra". Anal. Chem. , 62, 698-703 (1990)
FY	Winger, B. et al. "Characterization of Combinatorial Peptide Libraries by Electrospray Ionization Fourier Transform Mass Spectrometry". Rapid Comm. In Mass Spectrometry , 10, 1811-1813 (1996)
FZ	Wissner, A. et al. "Reaction of tert-Butyldimethylsilyl Esters with Oxalyl Chloride-Dimethylformide: Preparation of Carboxylic Acid Chlorides Under Neutral Conditions". J. Org. Chem. , 43, 3972-3974 (1978)
GA	Yates, J.R. "Mass Spectrometry From genetics To Proteomics". TIG , 16, 5-8 (2000)
GB	Yates, J.R. "Database Searching Using Mass Spectrometry Data". Electrophoresis , 19, 893-900 (1998)
GC	Yates, N.E et al. "A novel N-terminal derivative designed to simplify peptide fragmentation". Proceedings of the 43rd ASMS Conference of Mass Spectrometry and Allied Topics, Atlanta, Georgia (May 21-26) (1996)
GD	Young, J.D. et al. "Thymosin β 4 sulfoxide is an anti-inflammatory agent generated by monocytes in the presence of glucocorticoids". Nature Medicine , 12, 1424-1427
GE	Young, P. et al. "Alternative Mobile Phases For Enhanced HPLC Peptide Mapping". Millipore Bioforum , 4, (1993)
GF	Zhang, X. et al. "B=N-Terminal peptide labeling strategy for incorporation of isotopic tags: a method for the determination of site-specific absolute phosphorylation stoichiometry". Rapid Comm. In Mass Spec. , 16, 2325-2332 (2002)
GG	Zhong, T. et al. "The Yeast SIS 1 Protein, a DnaJ Homolog, is Required For The Initiation of Translation". Cell , 73, 1175-1186 (1993)
GH	Zhou, H. et al. "Quantitative proteome analysis by solid-phase isotope tagging and mass spectrometry". Nature Biotechnology , 19, 512-515 (2002)